G4

Logistics and Operational Visualization Demonstration

September 16, 2003

Presented by IAI/DSI

DEFENSE SYSTEMS, INC.

Overview

- Team Overview
- Objectives
- Description
- Demo Scenario
  - Demonstration
- Benefits
- Possibilities
- Next Steps

Team Overview

DSI

- Veteran Owned Small Business
- Systems integrator specializing in movement of data
- Strengths in evaluating new programs, data warehousing, custom code development (C/Java), Network/System admin, database design/ development
- Strong Joint customer base including: MSC, DISA, TRANSCOM, PEO EIS PM-AIT, GCSS, GCCS

IAI

- Small technology corporation specializing in DoD software development
- Strengths include geopositioning, visualization, and multi-INT processing
- Strong customer base including; USN, NRO, NIMA, ARDA, and other Agencies

Demo Objectives

- Provide a Scenario Driven Demonstration
  - Display capabilities of tool
- Q&A
- Identify other needs/applications

Description

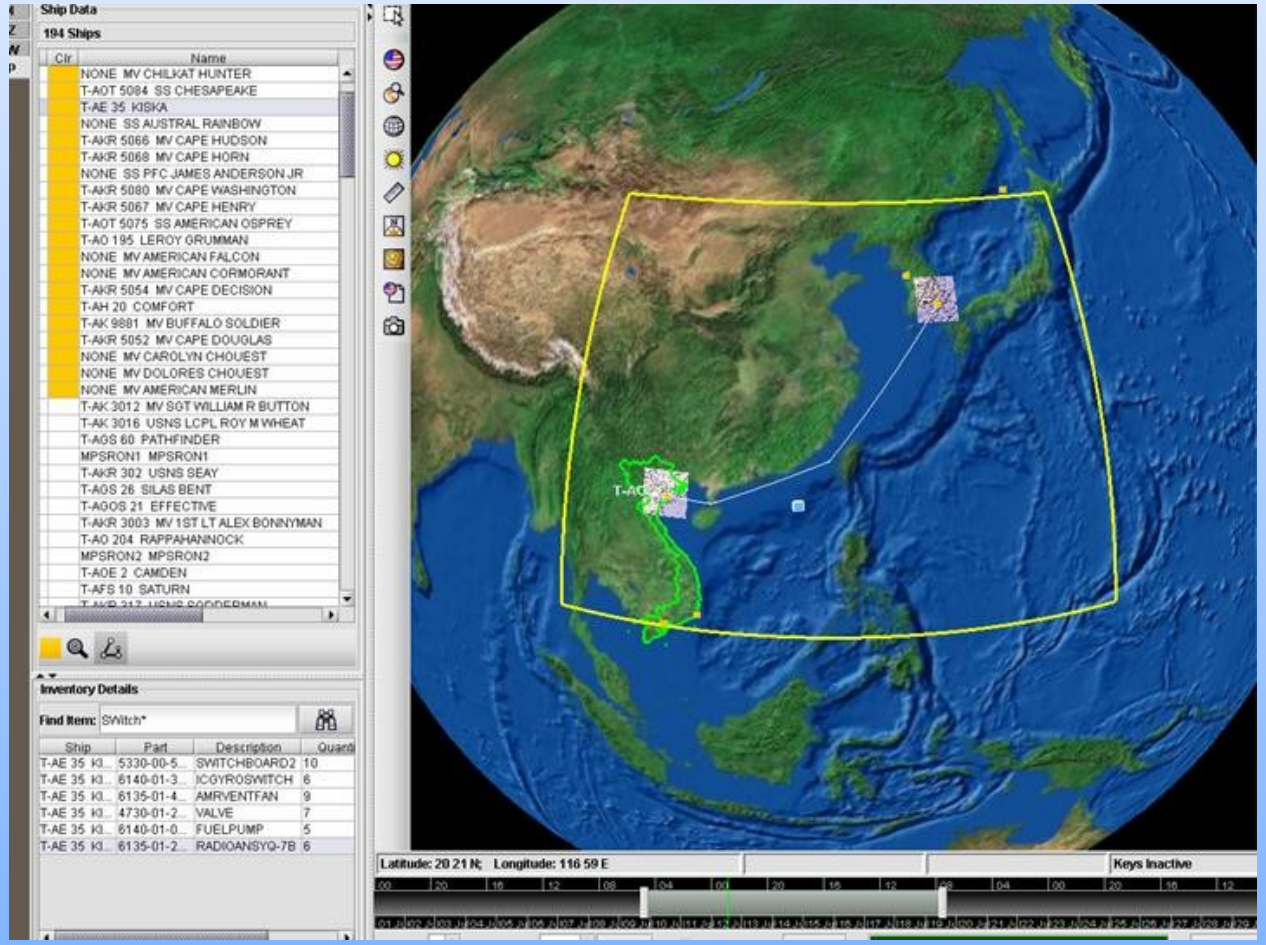
Advanced Location Geospatial Analysis Environment (ALGAE)

- Web-based (Java) 3D/2D visualization toolkit
- Supports multiple data types including:
  - Geospatial: ADRG, DNC VPF, Shape, Images
  - Custom: Track, Inventory, Externals (links)
  - Gazetteer: Countries, Major Cities, Major Ports
- Allows filtering on data: spatial, temporal, keywords
- Provides single interface to multiple data sources

Demo Scenario 1

Executive/Management view

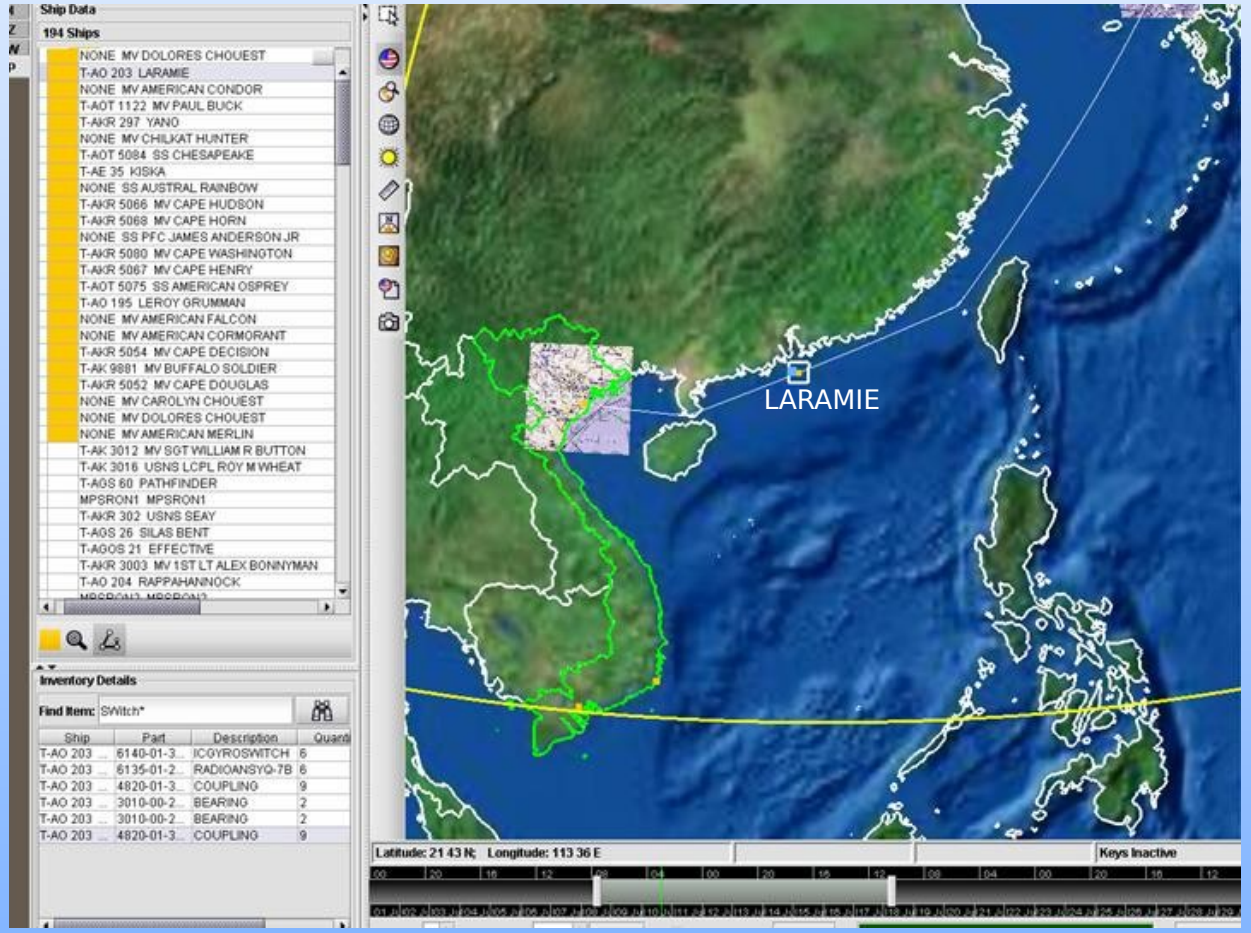
- Web Based Fleet Operational Picture (e.g. Temporal tracks)



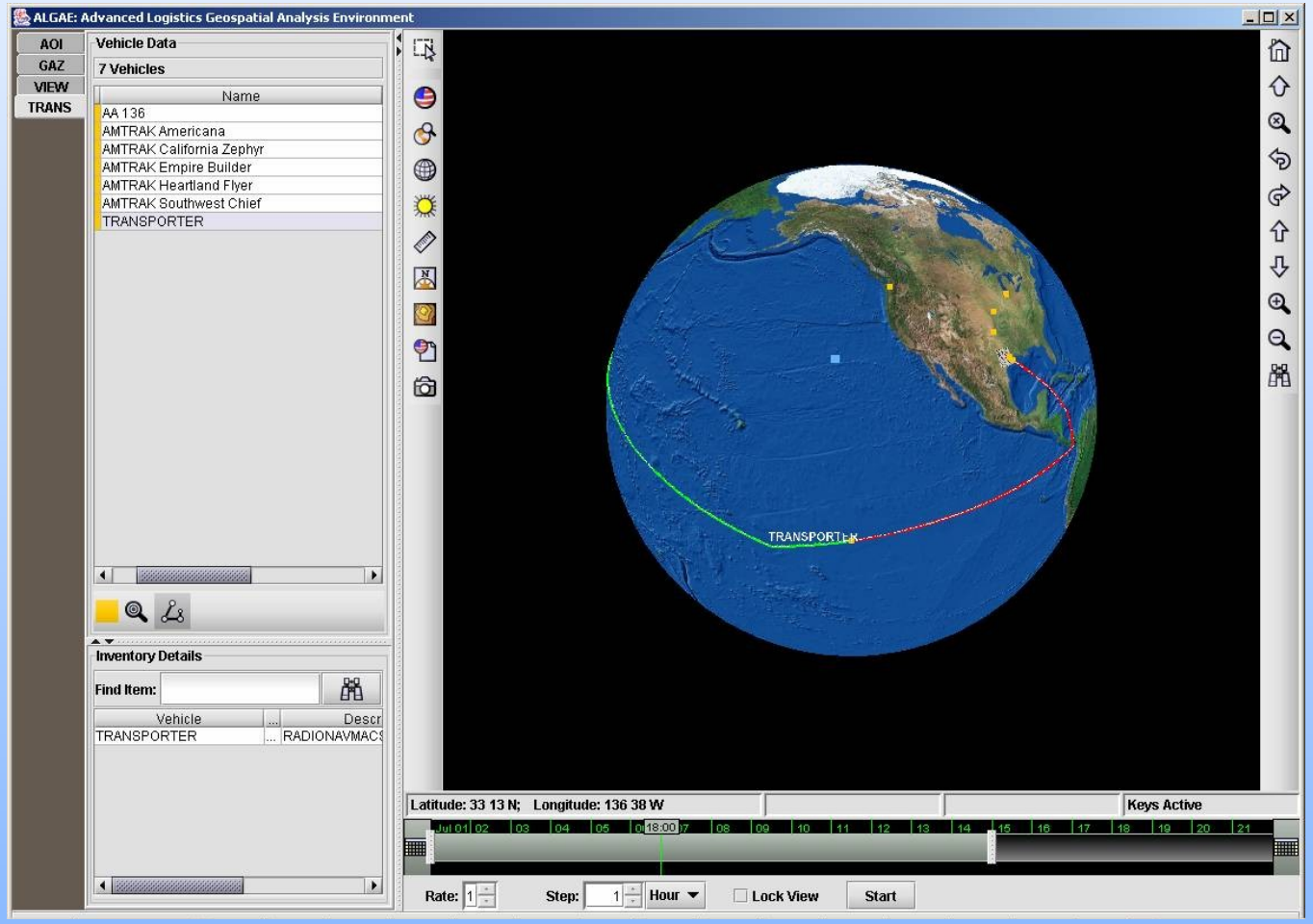
Demo Scenario 2

Visibility from sea or ground

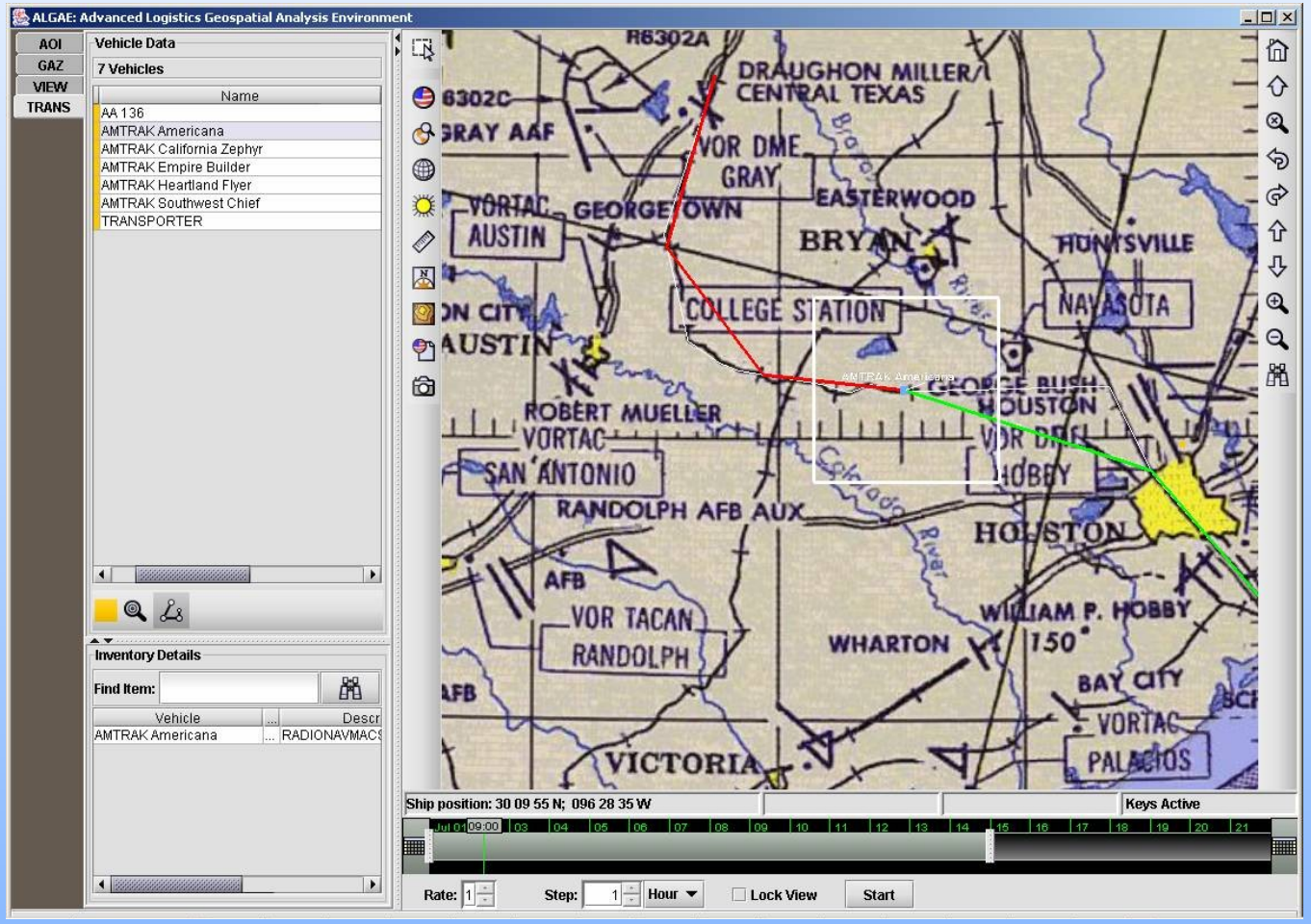
- Query capabilities: part, ship, train or truck, location, time, description, like parts
- Locate supplies or Class VII items (when/where)


Ship Data
194 Ships
NONE MV DOLORES CHOUEST
T-AO 203 LARAMIE
NONE MV AMERICAN CONDOR
T-AOT 1122 MV PAUL BUCK
T-AKR 297 YANO
NONE MV CHILKAT HUNTER
T-AOT 5084 SS CHESAPEAKE
T-AE 35 KISKA
NONE SS AUSTRAL RAINBOW
T-AKR 5066 MV CAPE HUDSON
T-AKR 5068 MV CAPE HORN
NONE SS PFC JAMES ANDERSON JR
T-AKR 5080 MV CAPE WASHINGTON
T-AKR 5067 MV CAPE HENRY
T-AOT 5075 SS AMERICAN OSPREY
T-AO 195 LEROY GRUMMAN
NONE MV AMERICAN FALCON
NONE MV AMERICAN CORMORANT
T-AKR 5054 MV CAPE DECISION
T-AK 9881 MV BUFFALO SOLDIER
T-AKR 5052 MV CAPE DOUGLAS
NONE MV CAROLYN CHOUEST
NONE MV DOLORES CHOUEST
NONE MV AMERICAN MERLIN
T-AK 3012 MV SGT WILLIAM R BUTTON
T-AK 3016 USNS LCPL ROY M WHEAT
T-AGS 60 PATHFINDER
MPSRON1 MPSRON1
T-AKR 302 USNS SEAY
T-AGS 26 SILAS BENT
T-AGOS 21 EFFECTIVE
T-AKR 3003 MV 1ST LT ALEX BONNYMAN
T-AO 204 RAPPAHANNOCK
Inventory Details
Find Item: SWitch*
Ship Part Description Quant
T-AO 203 ... 6140-01-3... ICGYROSWITCH 6
T-AO 203 ... 6135-01-2... RADIOANSYQ-7B 6
T-AO 203 ... 4820-01-3... COUPLING 9
T-AO 203 ... 3010-00-2... BEARING 2
T-AO 203 ... 3010-00-2... BEARING 2
T-AO 203 ... 4820-01-3... COUPLING 9
LARAMIE
Latitude: 21 43 N; Longitude: 113 36 E
Keys Inactive

Sea Transport



Rail and Surface



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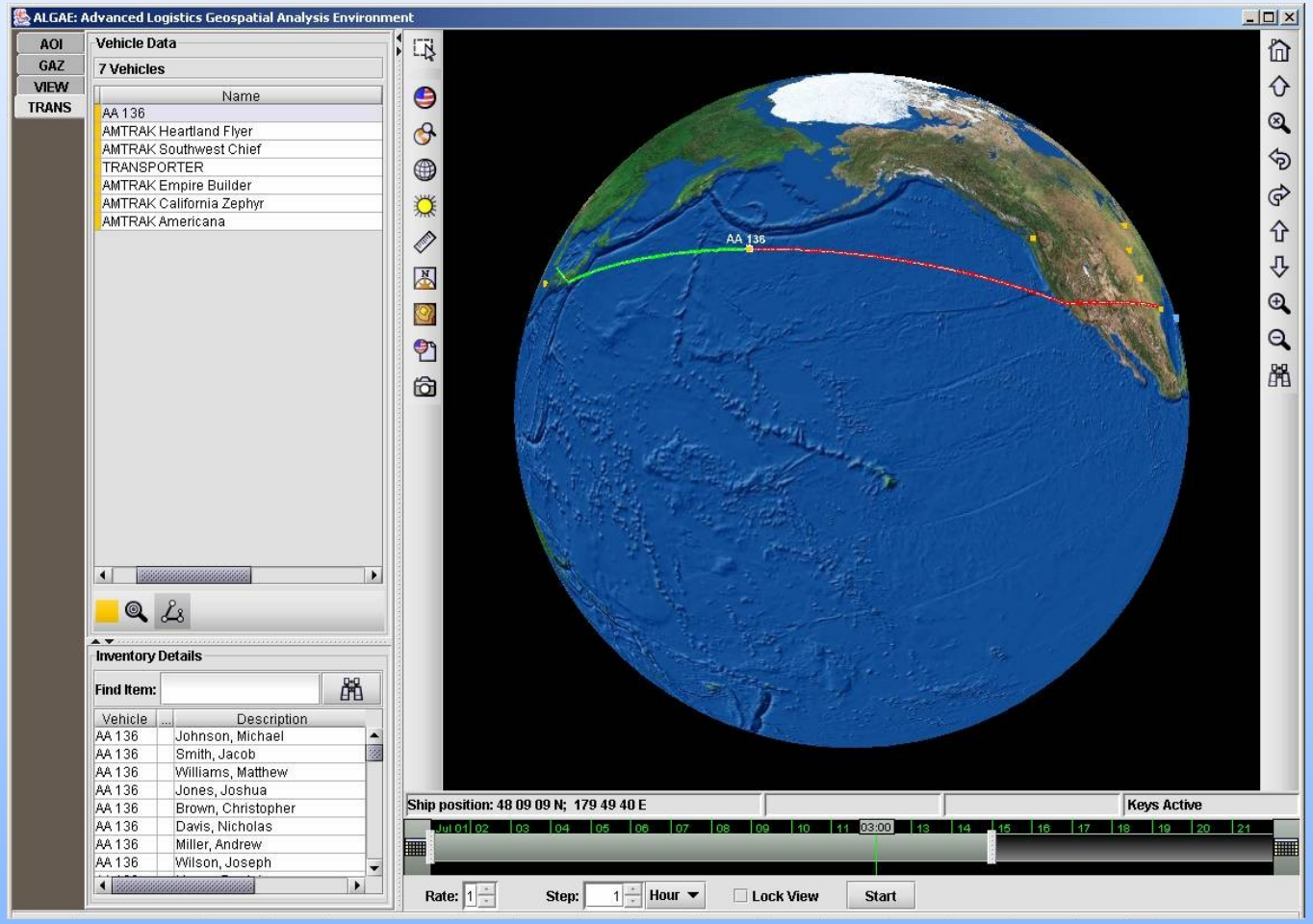
Air Transport



Benefits

Sea and Surface visibility and situation awareness

- Provide visual reference of assets at Sea, Surface, Port, or pre-positioned
  - Searchable by Map or Query
  - Voyage tracking

Decision support

- Present comprehensive information (visual & detailed data) for decision making and issue resolution
  - Equipment including supply/repair parts, cargo
  - Identify optimal case scenarios (e.g., best parts source)
  - Highlight special issues (e.g., CASREPs, performance)
  - Vessel status including ship location, fuel consumption, weather, etc.
  - What-if analysis

Other

- Flexibility
- Web Accessibility
- Data Timeliness
- Integration

Utilization

- Heavy (3D) and light (2D) capability
- Information integration from multiple data sources (internal, external)
  - Mapped with Callixa
- Integrate additional data sources real-time weather, comparative data analysis, and predictive track tools
- Provide historical, actual, and planned activities
- Introduce portal concepts like roles, sessions, and preferences
- Hyperlinks, cross-reference to visual information (e.g., diagrams)
- Other applications: other inventory data, part performance, labor dollars, red light performers,
- Accountability and visibility of prepo stocks

Next Steps

CUSTOMER DESIRES

FOLLOW ON DATES